



Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for July 25, 2014
Ed Kearns, Chief



CDR Program Office

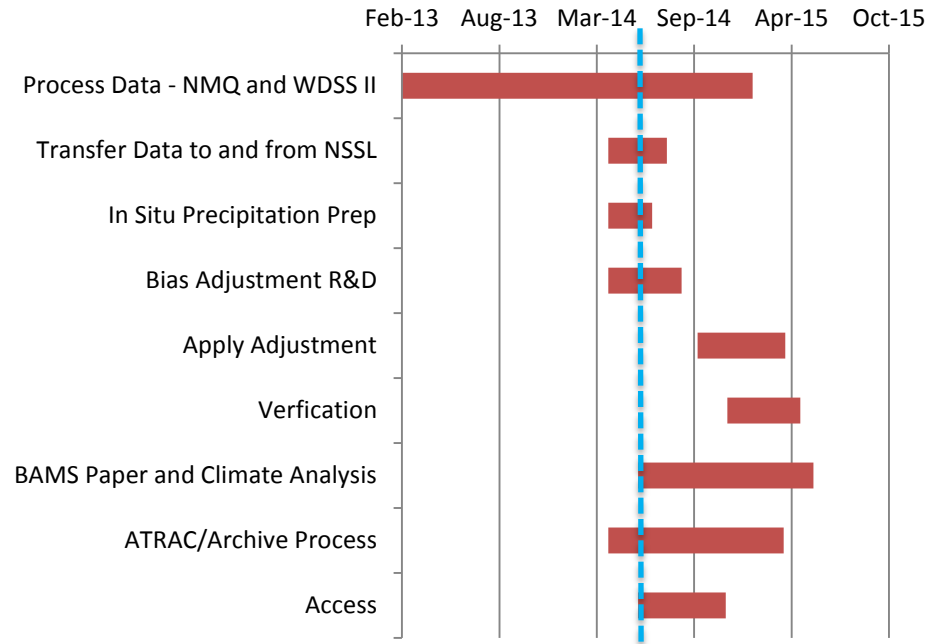
NOAA NEXRAD Reanalysis

Project Manager:
B. Nelson

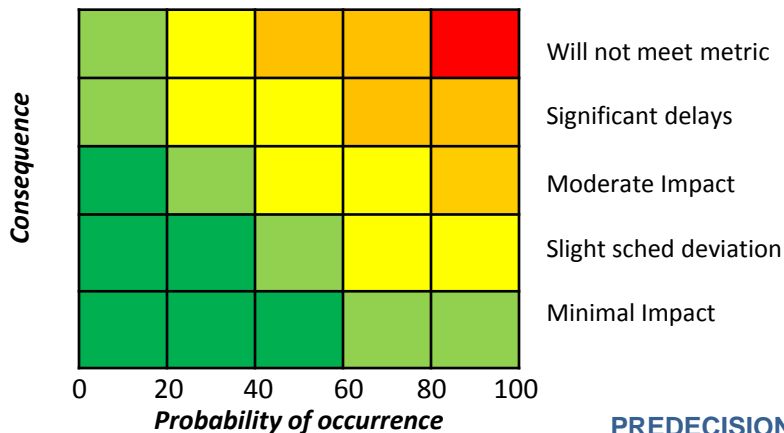
Weekly Report

NOAA NEXRAD Reanalysis Status

- Received 50TB of data from NSSL.
 - Working out where to put data (disks/tapes)
- Complete radar-only QPE for
 - 2001-2002, 2004, 2006-2011
- Developing *in situ* dataset for the gauge-adjustment
- Waiting for delivery of 10 external hard disks from NSSL
 - Remainder of severe weather data
 - Will use it to complete the QPE record
 - 2000, 2003, 2005
- Project Charter and Plan briefed to Councils Feb.-May
 - To be briefed to EC - Aug. 11



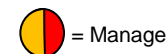
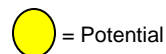
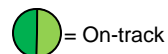
Risk Matrix



Risk and Mitigation

No Significant Risks at this time

7/29/2014



PREDECISIONAL DRAFT INFORMATION

= On-track = Potential management action required = Management attention required

CDR Program Office

Obs4MIPS

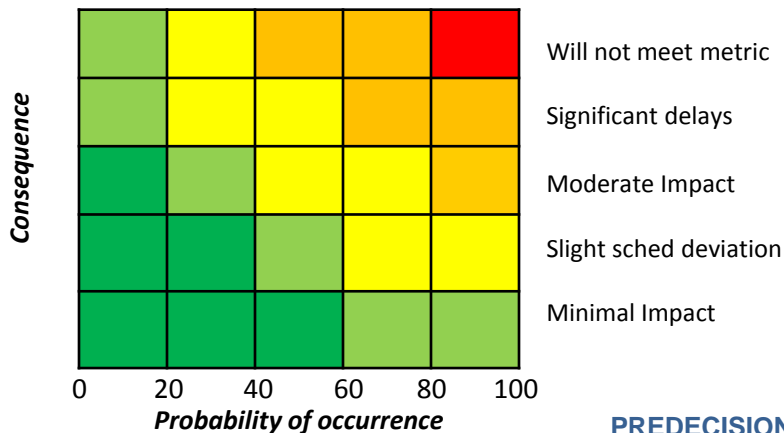
Project Manager:
H. Semunegus

Weekly Status Update

- Kickoff meeting held 7/18
- Initial plans developed.

Obs4MIPS using CDRs (Project Manager: Hilawe Semunegus)						2014												2015											
NOAA's National Climatic Data Center						Start Date	End Date	Duration (days)	Percent Complete	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Task (team member)	Start Date	End Date	Duration (days)	Percent Complete	Date																								
1.1 Present project plan and time commitment to team members (all)	2014-07-15	2014-07-31	17	100%																									
1.2 Select 3 CDRs for Obs4MIPS conversion (all)	2014-07-15	2014-07-31	17	50%																									
1.3 Assess uncertainty estimates for selected CDRs based on CATBDs (J. Matthews)	2014-07-15	2014-07-31	17	0%																									
1.4 Assess time commitment for writing a "Technical Note Template" (SMEs); https://www.eathsystemccg.org/site_media/projects/obs4mips/Obs4MIPsTechnicalNoteGuidance3.pdf	2014-07-15	2014-07-31	17	0%																									
1.5 Determine methodology for temporal and spatial upscaling/downscaling/averaging (SMEs and Jim Bard)	2014-07-15	2014-08-14	31	0%																									
2.0 Analysis (Sampling and validation)	2014-08-15	2014-11-14	92	0%																									
2.1 Create a sample monthly netCDF file for each Obs4MIPS-compliant CDR (Bard and SME)	2014-08-15	2014-09-14	31	0%																									
2.2 Independently compare sample output for scientific validation (SMEs and Bard)	2014-09-15	2014-10-14	30	0%																									
2.3 Validate that all metadata compliances are passed for sample files: CF, Obs4MIPS CDRs and CDR Metadata standards (Bard)	2014-10-15	2014-11-14	31	0%																									
3.0 Implementation (Code and documents)	2014-11-15	2015-02-28	106	0%																									
3.1 Produce Obs4MIPS CDRs for entire period of record (Bard and SMEs)	2014-11-15	2014-12-31	47	0%																									
3.2 Submit obs4MIPS Data Set Proposal Form (SMEs)	2015-01-01	2015-01-14	14	0%																									
3.3 Write Technical Note for each CDR (SMEs)	2015-01-01	2015-02-28	59	0%																									
4.0 Testing	2015-03-01	2015-04-30	61	0%																									
4.1 Test data scientifically (SMEs and Programmer)	2015-03-01	2015-03-31	31	0%																									
4.2 Test for monthly production (regular updates) of CDRs (within 10 days of succeeding month)	2015-03-15	2015-04-30	47	0%																									
5.0 Deployment (Archive)	2015-04-15	2015-10-31	209	0%																									
5.1 Complete Archive Request Form or ATRAC (SMEs, PM and Archive)	2015-04-15	2015-04-29	15	0%																									
5.2 Complete all Archive requirements (SMEs, PM and Archive)	2015-05-01	2015-07-31	92	0%																									
5.3 Serve CDRs via GFDL or NCDC ESG node (NCMADS-DAGB)	2015-08-01	2015-08-31	31	0%																									
5.4 USCB Product Briefing (SMEs)	2015-09-01	2015-09-15	15	0%																									
5.5 Add Obs4MIPS project to CDRP website																													

Risk Matrix

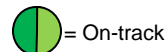


Risk and Mitigation

TBD

PREDECISIONAL DRAFT INFORMATION

7/29/2014



= On-track

= Potential management action required

= Management attention required



CDR Program Office

ISCCP Processing @ NCDC

Project Manager:
A. Young/K. Knapp

Weekly Status Update

- Prepared space and scripts for ISCCP processing on CICS server.
- Received pre-processing software to QC input files (GEO/B1 & LEO/AVHRR)

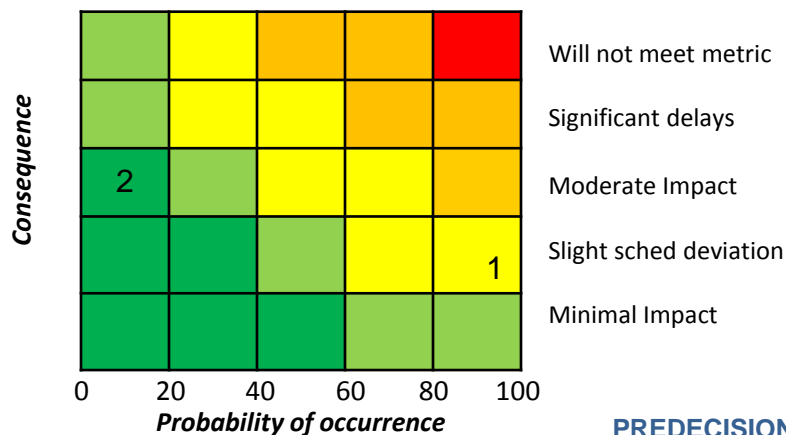
Objectives

Produce ISCCP cloud products at NCDC following IOC R2O procedures. Plan for routine updates to follow.

Schedule

- Start Date 1983? 2003?
- Begin processing September 2014
- End processing December 2014
- QC & Analysis Jan-Feb 2015
- Archive March 2015
- Routine updates start June 2015

Risk Matrix

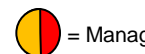
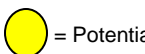
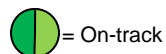


Risk and Mitigation

1. Delivery of software late and other delays.
2. CICS server space

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CDR Program Office

UW HIRS Processing @ NCDC

Project Manager:
A. Young

Weekly Status Update

- Preparing plan for processing on CICS server.
- Working on finding space for the 10TB of input data (pixel level cloud data).

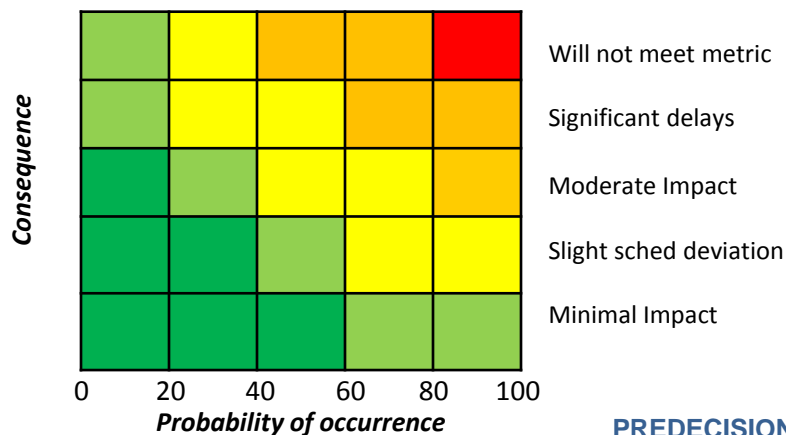
Objectives

Produce global total precipitable water and cloud top pressure estimates from HIRS data using the UW algorithm (P. Menzel).

Schedule

- Start Date TBD
- End Date TBD

Risk Matrix

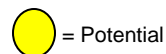
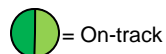


Risk and Mitigation

TBD

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CDR Program Office

Albedo of the Americas

Project Manager:
J. Matthews

Weekly Status Update

- Loaned 42 TB of disk space allocation to ISCCP Project

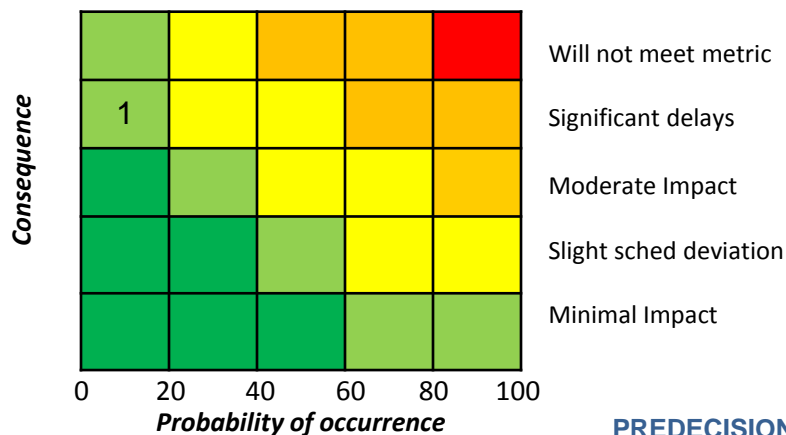
Objectives

Produce a daily land surface albedo product over North and South America from GOES-GVAR observations for 1995-2014.

Schedule

- Start Date January 2015
- End Date June 2016

Risk Matrix

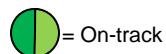


Risk and Mitigation

- Loaned disk space is not returned
 - * Could cause delays. Unlikely since more disk space is planned.

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OISST Research to Operations Project

Project Manager:
D. Saunders

Weekly Report – July 25, 2014

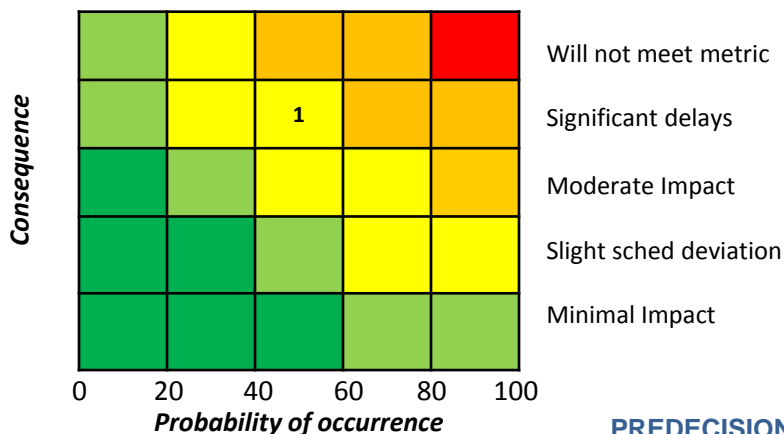
1 OISST – Optimum Interpolated Sea Surface Temperature

- Performing dry runs for the System Acceptance Test (SAT).
- Dry runs errors are being corrected in SAT document and software.
- Draft OISST Transition to Operations Project Plan is being reviewed (ITB and OISST team).
- Successfully completed 30 day parallel test.
- Comparing NCDC GTS with NCEP ship/buoy data for use. GCAD is resolving issues but requires new operational code.
- AVHRR data for the 15 day delay product is available from CLASS.
- Running test data and code on Rainband for parallel test.
- GSTWG discussing inputs and production of preliminary OISST.
- Created a SOP for operational OISST.
- Completed refactoring of each component.
- Conducted Technology Assessment Review July 25.

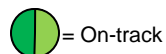
Operations:

OISST Project	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	NOV
Phase 1																
Setup DEV env																
Verify DEV																
Complete software modifications																
Setup TEST env																
SAT Dry Runs																
SAT																

Risk Matrix



PREDECISIONAL DRAFT INFORMATION



= On-track



= Potential management action required



= Management attention required

Risk and Mitigation

- 1 Time to progress through the three tier environment. ITB support is required.
- 2 Some operational users expect Near real-time access to the preliminary OISST. Need to



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Pipeline Monitoring Tool

Project Manager:
L. Copley

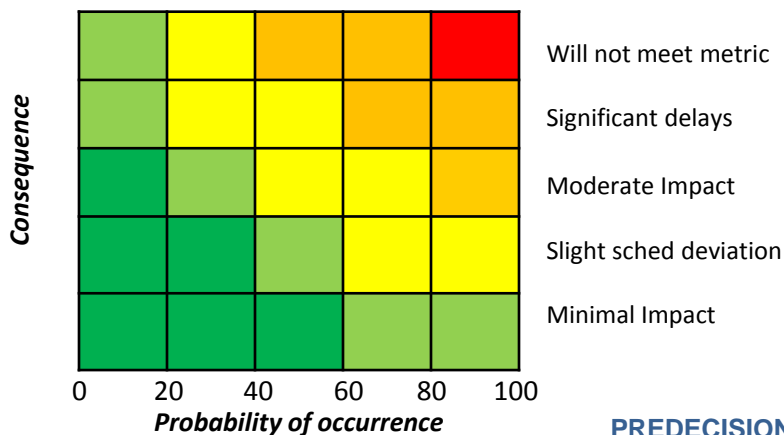
Weekly Report – July 25, 2014

1 Operations Monitoring Tool development

- Working on database design.
- Defined requirements for Phase 1 of the project.
- Phase 1 implements basic functionality .
- Additional datasets can be added in later phases.
- Updated the monitoring project plan.
- Monitoring of operational ingest.

Monitor Project	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	NOV
Phase 1																
Status View																
Dashboard																
Email Notification																
Phase II																

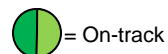
Risk Matrix



Risk and Mitigation

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CDR Program Office

Reprocessing VIIRS SDRs

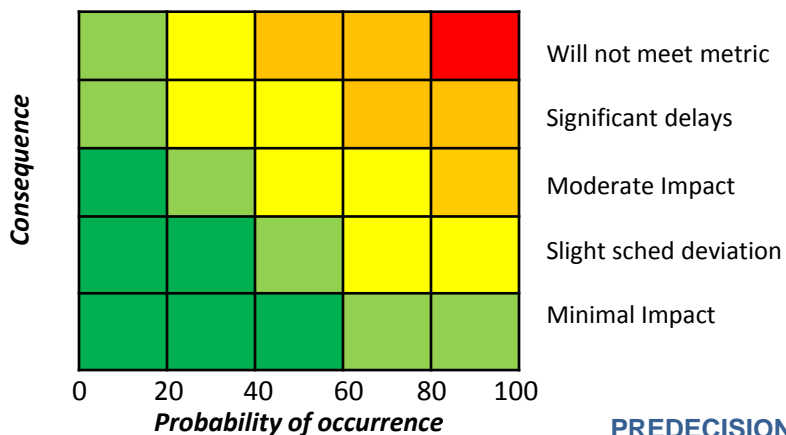
Project Manager:
J. Biard

Weekly Report – July 25, 2014

1 Operations Monitoring Tool development

- Reviewing draft white paper to identify issues and establish scope.
- Have identified parts of the algorithm that need to 'conditioned' during runtime and will affect reprocessing estimates.
- Discussed scope and goals of the project with CDRP scientist.

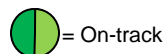
Risk Matrix



Risk and Mitigation

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S t a t u s	CDR		Assessment		Deliver Drafts					Review and Provide Feedback						Deliver Final Versions						Misc		Archive			Release			
			Assemble IPT	Perform Assess- ment	Deliver source code sample and README draft	Deliver Flow Diagram Draft	Deliver C-ATBD Draft	Deliver Maturity Matrix Draft	Deliver Sample netCDF dataset	Deliver SA Draft	Provide feedback on source code and README	Provide feedback on Flow Diagram Draft	Provide feedback on C-ATBD Draft	Provide feedback on Maturity Matrix Draft	Provide feedback on Sample netCDF dataset	Provide feedback on SA Draft	Deliver final source code and README	Deliver final Flow Diagram	Deliver final C-ATBD	Deliver final Maturity Matrix	Deliver final netCDF dataset	Deliver final SA	Create Collection Level Metatdata	Conduct Security Review	Archive Code Package	Archive Docs	Archive Data	Make data publicly available	Put data, docs, and code on dev web page	Conduct ORR
1	AMSU-A FCDR (CH7 GPSRO)	Ho Shi	x	x	x	22-Jul	28-Jun	22-Jul	x	4-Sep	x	26-Jul	11-Jul	26-Jul	x	9-Sep	23-Aug	5-Aug	27-Aug	5-Aug	13-Sep	10-Sep	11-Sep	27-Aug	17-Sep	17-Sep	17-Sep	20-Sep	24-Sep	7-Nov
2	Vegetation (Sfc Ref)	Vermote Matthews	x	17-Jan	22-May	2-Jul	26-Jul	7-May	22-May	6-Nov	29-May	9-Jul	22-Aug	6-Nov	30-Jun	8-Nov	1-Apr	1-Nov	19-Nov	5-Mar	24-Apr	12-Nov	14-May	6-Nov	15-May	6-May	7-May	15-May	16-May	21-May
3	Vegetation (NDVI)	Vermote Matthews	x	17-Jan	22-May	2-Jul	26-Jul	7-May	22-May	6-Nov	29-May	9-Jul	22-Aug	6-Nov	30-Jun	8-Nov	1-Apr	1-Nov	19-Nov	5-Mar	24-Apr	12-Nov	14-May	6-Nov	15-May	6-May	7-May	15-May	16-May	21-May
4	MSU TCDR	Zou Semunegus	x	IP 23-Dec	25-Feb	25-Feb	25-Feb	25-Feb	25-Feb	19-Mar	4-Mar	4-Mar	4-Mar	4-Mar	4-Mar	26-Mar	28-Mar	31-Mar	31-Mar	31-Mar	28-Mar	2-Apr	11-Jun	2-May	8-May	25-Apr	1-Apr	11-Jun	11-Jun	12-Jun
5	Could Properties	Heidinger Knapp	x	x	x	x	17-Mar	11-Jan	x	16-Jan	x	16-Jan	16-Jan	16-Jan	16-Jan	16-Jan	21-Nov	16-Jan	15-May	16-Jan	27-Jun	5-Mar	2-Jul	x	11-Jun	11-Jun	27-Jun	2-Jul	2-Jul	3-Jul
6	OLR Daily	HT Lee Shreck	x	x	1-Jun	6-Jan	1-Jun	11-Jan	30-Jan	10-Jun	2-Jul	10-Jan	4-Jun	14-Jan	6-Jun	10-Jun	5-Jun	15-Jan	16-Jun	11-Jun	24-Jun	12-Jun	18-Jun	12-Jun	23-Jun	24-Jun	2-Jul	3-Jul		
7	SST - WHOI	Clayson Peng	x	21-Feb	12-Dec	3-Apr	20-May	19-Feb	25-Nov		16-Dec		6-Jun		13-Dec															FY14
8	Ocean Surface Properties	Clayson Peng	x	21-Feb	12-Dec	3-Apr	20-May	19-Feb	25-Nov		16-Dec		6-Jun		13-Dec															FY14
9	Ocean Surface Heat Fluxes	Clayson Peng	x	21-Feb	12-Dec	3-Apr	20-May	19-Feb			16-Dec		6-Jun																	FY14
10	Stratospheric (Ozone)	Rosenlof Young	x	x	20-May		20-Mar		30-Oct 4-Apr		12-Jun		27-Mar		6-Jan 12-Jun 15-Jul															FY14
11	Cryosphere (APP FCDR)	Key Young	13-Jun	IP 20-Dec	3-Jun		20-Mar	12-Mar	12 Mar 27 Jun				25-Apr	20-Mar	25-Apr															FY15
12	Cryosphere (APP-x TCDR)	Key Young	13-Jun	IP 20-Dec	3-Jun		20-Mar	12-Mar	12 Mar 27 Jun				25-Apr	20-Mar	25-Apr															FY15
13	AVHRR FCDR (5 CHs)	Minnis Young	x	22-Nov		14-Feb	31-Dec 28-Mar	7-Feb	14-Feb	20-Dec 16-Jul		21-Feb	13-Feb 2-Jun	14-Feb	18-Feb	19-Jun				1TB /day					60 TB CLASS					FY15
14	AVHRR Cloud Properties - NASA	Minnis Young	x	22-Nov		14-Feb	31-Dec 28-Mar	7-Feb	14-Feb	20-Dec 16-Jul		21-Feb	13-Feb 2-Jun	14-Feb	18-Feb	19-Jun				1TB /day					60 TB CLASS					FY15
15	Vegetation (LAI/FAPAR)	Vermote Matthews	x	17-Jan	24-Jun	2-Jul	26-Jul	7-May	16-Jul	6-Nov	29-May	9-Jul	22-Aug	6-Nov	30-Jun	8-Nov	1-Nov	1-Nov												FY15
16	Cloud Top Pressure	Menzel Young	x	31-Jan	1-Oct	5-Aug	15-May	5-Aug	21-Oct 11-Jul		29-Oct	29-Oct	29-Oct 10-Jan							NCDC creating										FY15
17	Total Precipitable Water	Menzel Young	x	31-Jan	1-Oct	5-Aug	15-May	5-Aug	21-Oct		29-Oct	29-Oct	29-Oct 10-Jan							NCDC creating										FY15
18	Total Solar Irradiance	Pilewskie Inamdar	x	6-Mar	22-Jan	26-Mar		26-Mar		ATRAC	9-May																			FY15
19	Solar Spectral Irradiance	Lean Inamdar	x	6-Mar	22-Jan	26-Mar		26-Mar		ATRAC	9-May																			FY15
20	ISCCP	Rossow Knapp	x	17-Jan																										FY15



Status	CDR		PI	TM	Assessment		Deliver Drafts				Review and Provide Feedback						Deliver Final Versions						Misc		Archive			Release				
					Assemble IPT	Perform Assessment	Deliver source code sample and README draft	Deliver Flow Diagram Draft	Deliver C-ATBD Draft	Deliver Maturity Matrix Draft	Deliver Sample netCDF dataset	Deliver SA Draft	Provide feedback on source code and README	Provide feedback on Flow Diagram Draft	Provide feedback on C-ATBD Draft	Provide feedback on Maturity Matrix Draft	Provide feedback on Sample netCDF dataset	Provide feedback on SA Draft	Deliver final source code and README	Deliver final Flow Diagram	Deliver final C-ATBD	Deliver final Maturity Matrix	Deliver final netCDF dataset	Deliver final SA	Create Collection Level Metadata	Conduct Security Review	Archive Code Package	Archive Docs	Archive Data	Make data publicly available	Put data, docs, and code on dev web page	Conduct ORR
1	AMSU-A FCDR (CH7 GPSRO)	Ho Shi			1) Complete			22-Jul	28-Jun	22-Jul	x	4-Sep	x	26-Jul	11-Jul	26-Jul	x	8-Sep	22-Aug	5-Aug	27-Aug	5-Aug	12-Sep	10-Sep	11-Sep	27-Aug	17-Sep	17-Sep	17-Sep	20-Sep	24-Sep	7-Nov
2	Vegetation (Sfc Ref)	Vermote Matthews			2) Complete			2-Jul	26-Jul	7-May	22-May	8-Nov	23-May	8-Jul	22-Aug	8-Nov	30-Jun	8-Nov	1-Apr	1-Nov	10-Nov	5-Mar	24-Apr	12-Nov	14-May	8-Nov	15-May	8-May	7-May	10-May	10-May	21-May
3	Vegetation (NDVI)	Vermote Matthews			3) Complete			2-Jul	26-Jul	7-May	22-May	8-Nov	23-May	8-Jul	22-Aug	8-Nov	30-Jun	8-Nov	1-Apr	1-Nov	10-Nov	5-Mar	24-Apr	12-Nov	14-May	8-Nov	15-May	8-May	7-May	10-May	10-May	21-May
4	MSU TCDR	Zou Semunegus			4) Complete			25-Feb	26-Feb	26-Feb	26-Feb	10-Mar	4-Mar	4-Mar	4-Mar	4-Mar	4-Mar	26-Mar	29-Mar	31-Mar	31-Mar	31-Mar	28-Mar	3-Apr	11-Jun	3-May	3-May	25-Apr	1-Apr	11-Jun	11-Jun	12-Jun
5	Cloud Properties	Heidinger Knapp			5) Complete			x	17-Mar	11-Jan	x	10-Jan	x	x	x	x	x	4-Jun	21	x	16-May	16-Jun	27-Jun	6-Mar	2-Jul	x	11-Jun	11-Jun	27-Jun	2-Jul	2-Jul	3-Jul
6	OLR Daily	HT Lee Shreck			6) Complete			8-Jan	1-Jan	11-Jan	20-Jan	18-Jan	x	10-Jan	4-Jan	14-Jan	8-Jan	2-Jan	x	9-Jan	10-Jan	16-Jan	11-Jan	24-Jan	12-Jan	15-Jan	15-Jan	23-Jan	24-Jan	2-Jul		3-Jul
7	SST - WHOI	Clayson Peng			7) Received sample data for 2001, data looks good									8-Jun		11-Jun																FY14
8	Ocean Surface Properties	Clayson Peng			8) Provided feedback on C-ATBD								16-Dec		8-Jun		11-Dec															FY14
9	Ocean Surface Heat Fluxes	Clayson Peng			9) Still waiting on sample data								16-Dec		8-Jun																	FY14
10	Stratospheric (Ozone)	Rosenlof Young			10) AB/OB provided recommendation on new file structure												6-Jan 12-Jun 15-Jul															FY14
11	Cryosphere (APP FCDR)	Key Young			11) Reviewing TCDR C-ATBD											25-Apr	26-Mar	25-Apr														FY15
12	Cryosphere (APP-x TCDR)	Key Young			12) Feedback sent on metadata											25-Apr	26-Mar	25-Apr														FY15
13	AVHRR FCDR (5 CHs)	Minnis Young			13) Draft SA complete			21-Feb 13-Mar	7-Feb	14-Feb	28-Dec 18-Jul			21-Feb	13-Feb	14-Feb	10-Feb	10-Jun					1TB /day					60 TB CLASS				FY15
14	AVHRR Cloud Properties - NASA	Minnis Young			14) PI will push up to 1TB/day to ftp4 using sftp; PI found problem with IR calibration (~2 weeks to fix)																		1TB /day					60 TB CLASS				FY15
15	Vegetation (LAI/FAPAR)	Vermote Matthews			15) Received sample data									8-Jul			1-Nov	1-Nov														FY15
16	Cloud Top Pressure	Menzel Young			16) ATRAC request for L1B PATMOS input data (12.5 TB), final dataset (3 TB)																		NCDC creating									FY15
17	Total Precipitable Water	Menzel Young			17) Received another iteration of sample data								29-Oct 10-Jan										NCDC creating									FY15
18	Total Solar Irradiance	Pilewskie Inamdar			18) Had IPT meeting; PI working on C-ATBD																											FY15
19	Solar Spectral Irradiance	Lean Inamdar			19) Received sample data, needs a lot of work; ATRAC request complete																											FY15
20	ISCCP	Rossow Knapp			20) Anand/Alisa/Bill found coding error; they were able to step through one month of processing																											FY15



	CDR	PI TM	Assessment		Deliver source code sample and README draft	Deliver Drafts				Review and Provide Feedback						Deliver Final Versions					Misc		Archive			Release					
			Assemble IPT	Perform Asses- ment		Deliver Flow Diagram Draft	Deliver C-ATBD Draft	Deliver Maturity Matrix Draft	Deliver Sample netCDF dataset	Deliver SA Draft	Provide feedback on source code and README	Provide feedback on Flow Diagram Draft	Provide feedback on C-ATBD Draft	Provide feedback on Maturity Matrix Draft	Provide feedback on Sample netCDF dataset	Provide feedback on SA Draft	Deliver final source code and README	Deliver final Flow Diagram	Deliver final C-ATBD	Deliver final Maturity Matrix	Deliver final netCDF dataset	Deliver final SA	Create Collection Level Metatdata	Conduct Security Review	Archive Code Package	Archive Docs	Archive Data	Make data publicly available	Put data, docs, and code on dev web page	Conduct ORR	
21	CMORPH	Xie Prat	x																												FY16
22	NRT Sea Ice Concentration	Fetterer Peng	x	PI says NO deliverables																											FY16
23	Hydorogical Bundle	Ferraro Nelson																													FY16
24	AMSU-A FCDR	Ferraro Nelson																													FY16
25	AMSU-B FCDR	Ferraro Nelson																													FY16
26	Sea Level	Callahan Zhang																													FY16
27	Mean Layer Temperature - NOAA	Zou Semunegus																													FY16
28	Tropospheric Height	Ho Shi																													FY16
29	Surface Albedo	Matthews																													FY17
30	UTH Related FCDR	Lou																													FY17
31	AVHRR + HIRS Cloud TCDR	Heidinger Knapp																													FY17
32	ISCCP Enery Budget	Zhang																													FY17
33	GPCP Monthly	Adler																													FY17
34	GPCP Daily	Adler																													FY17
35	GPCP Pentad	Adler																													FY17
36	Ozone	Long																													FY17

FY16

FY17



CDRP Open Change Requests

Name of CDR	C-ATBD	Data Flow Diagram	Maturity Matrix	VDD	Source Code	NetCDF sample	Dataset	Request to Archive	Approved for Archive	SA	DSRR
Geostationary IR Channel Brightness Temperature - GridSat B1	Returned to PI with edits	Needed, TBD	Needed, TBD	N/A	✓	✓	✓	✓	✓	✓	Aug-13
Sea Surface Temperature - Pathfinder	Returned to PI with edits	No change	No change	✓	✓	✓	Having QA issues, will not be delivered until end of CY 2014	✓	✓	Needed, TBD	Needed, TBD
Mean Layer Temperature - UAH	31-Jul	31-Jul	N/A	Needed, TBD	10-Aug	10-Aug	Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD

GST FY14 Subcontracts

PI	CDRs	Start Date	End Date	WA Complete	Sent to Institution for Review	Sub-contract in place
Christy	Mean Layer Temperature - UAH	15-Sep-14	31-Mar-15	√	√	
Ho	- Mean Layer Temperature - UCAR (Lower Stratosphere) - Mean Layer Temperature - UCAR (Troposphere and Stratosphere) - Tropopause Height Climatology	17-Sep-14	31-Mar-15	√	√	
Robinson	Snow Cover Extent (Northern Hemisphere)	11-Sep-14	31-Mar-15	√	√	√
Sorooshian	Precipitation - PERSIANN-CDR	1-Aug-14	31-Mar-15	√	√	
Zhang	ISCCP Radiation Budget	1-Aug-14	31-Mar-15	√	√	
Wentz	SSM/I(S) Brightness Temperature - RSS	14-Sep-14	31-Mar-15	√	√	√
Mears	Mean Layer Temperature - RSS	14-Sep-14	31-Mar-15	√	√	√